TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-06-27-04** **Date: 30-06-17**
Customer	:	Asisstant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains Construction of RCC Drain at Janatha Colony, Chikkasandra in ward no.12 in Shettyhalli Sub Division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-17
Sample ID No	:	2017-06-27-04/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	27-06-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	80	80	8.0	92.0	90-100	90-100	90-100	95-100
3	2.36 mm	134	214	21.4	78.6	60-95	75-100	85-100	95-100
4	1.18 mm	166	380	38.0	62.0	30-70	55-90	75-100	90-100
5	600 micron	187	567	56.7	43.3	15-34	35-59	60-79	80-100
6	300 micron	177	744	74.4	25.6	5-20	8-30	12-40	15-50
7	150 micron	165	909	90.9	9.1	0-10	0-10	0-10	0-15
8	Pan	91	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-06-27-04** **Date: 30-06-17**

Sample ID No : 2017-06-27-04/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.85	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	4.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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All information furnished by Customer/Representative
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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-06-29-01** **Date: 30-06-17**
Customer	:	Asisstant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains Construction of RCC Drain at Janatha Colony, Chikkasandra in ward no.12 in Shettyhalli Sub Division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-06-17
Sample ID No	:	2017-06-29-01-01
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	29-06-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.392	560	680	21.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.612	574	690	20.0%	Satisfactory	Satisfactory

Note:

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ
ಪಾ.ಲಿ.ಯೋ. ಲಿ., ಬೆಂಗಳೂರು.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-06-29-01**
Customer	:	Asisstant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains Construction of RCC Drain at Janatha Colony, Chikkasandra in ward no.12 in Shettyhalli Sub Division.
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/DD/WO/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-06-17
Sample ID No	:	2017-06-29-01-02
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	29/06/2017

Date: 03-07-17

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.47	100.45	1.416	4473	96.1	21.5	20.0	25.0
2	Cover Slab-2	75.48	100.42	1.432	4474	95.3	21.3	19.8	24.8
3	Cover Slab-3	75.54	100.54	1.448	4481	94.5	21.1	19.6	24.5

Note:

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-08-08** **Date: 10/07/2017**

Customer : Asisstant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains Construction of RCC Drain at Janatha Colony, Chikkasandra in ward no.12 in Shettyhalli Sub Division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-17

Sample ID No : 2017-07-08-08-01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	03/07/2017	10/07/2017	150.20 X 150.18 X 150.15	22557	8.299	394.7	17.5	17.5
2	Drain Concrete	M20	03/07/2017	10/07/2017	150.22 X 150.29 X 150.21	22577	8.377	404.1	17.9	
3	Drain Concrete	M20	03/07/2017	10/07/2017	150.26 X 150.28 X 150.24	22581	8.412	386.1	17.1	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-08-08** **Date: 31/07/2017**

Customer : Asisstant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains Construction of RCC Drain at Janatha Colony, Chikkasandra in ward no.12 in Shettyhalli Sub Division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-17

Sample ID No : 2017-07-08-08-02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	03/07/2017	31/07/2017	150.34 X 150.37 X 150.25	22607	8.467	508.6	22.5	22.2
2	Drain Concrete	M20	03/07/2017	31/07/2017	150.43 X 150.39 X 150.40	22623	8.489	495.4	21.9	
3	Drain Concrete	M20	03/07/2017	31/07/2017	150.37 X 150.31 X 150.28	22602	8.443	499.5	22.1	

Note:

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-08-08 **Date: 11/07/2017**

Customer : Asisstant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains Construction of RCC Drain at Janatha Colony, Chikkasandra in ward no.12 in Shettyhalli Sub Division.

Agency : Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross,17th 'C' Main Road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/DD/WO/120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-06-17

Sample ID No : 2017-07-08-08-03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	04/07/2017	11/07/2017	150.45 X 150.39 X 150.42	22626	8.459	411.8	18.2	18.4
2	Drain Concrete	M20	04/07/2017	11/07/2017	150.48 X 150.45 X 150.41	22640	8.497	414.3	18.3	
3	Drain Concrete	M20	04/07/2017	11/07/2017	150.38 X 150.33 X 150.36	22607	8.472	425.0	18.8	

Note:

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು

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